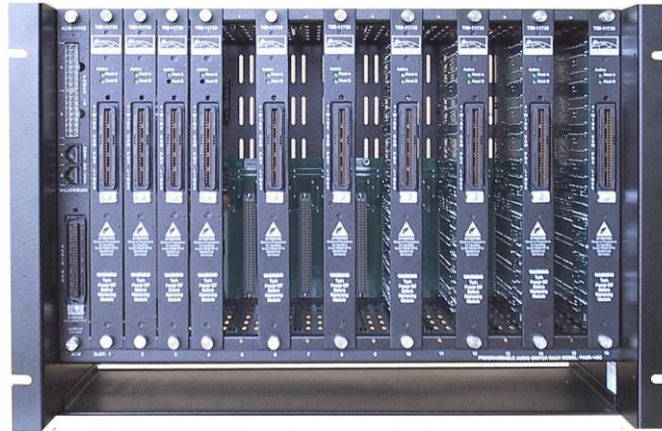


## PRODUCT DESCRIPTION

# PROGRAMMABLE AUDIO SWITCH



### General Description

The Programmable Audio Switch (PAS) was developed by Willowglen Systems Inc. to provide enhanced and programmable switching control of numerous private line audio interconnections. It is designed to work with a PABX (Private Automated Branch Exchange).

The PAS interfaces with 4-wire E&M lines (such as those provided for PABX trunk lines) and switches a line from any input to one or more outputs.

The PAS supports the following operational functions:

- **Switch Matrix** - used to switch an input trunk line to an output trunk line.
- **Broadcast** - connects one input to multiple outputs.
- **Monitor** - combines two PAS audio lines that are directed to a speaker or headset ear piece.
- **DTMF** - enables DTMF (Dual-Tone Multi-Frequency) detection and transmission on a channel.
- **Default Routing** - connects a PABX trunk line to the adjacent default line in case of power failure or by command.

### Benefits

- The PAS creates a broadcast connection instantaneously.
- The PAS uses E&M signal lines to transmit Press-To-Talk (PTT) signals.
- The PAS allows default connections between adjacent channels to be directed through the PABX.
- The PAS allows the monitoring of any channel.
- Redundant Power Supply
- Redundant Communication
- Independent Trunk Interface Modules

# General Specifications and Components

## TIM-11738 Trunk Interface Module



The Trunk Interface Module (TIM) performs audio interconnection functions for one to six 4-wire E&M audio channels. The module supports Type-I, Type-II, Type-IV, and Type-V E&M interfaces. The E&M mode can be configured independently for each channel. A front panel 50-pin CHAMP connector is used to connect to field devices.

The module includes the following interconnection modes:

- **Switch Matrix Function** – connecting any input to any output.
- **Broadcast Function** – connecting any input to multiple outputs.
- **Monitor Function** – combining any 2 signals to a single output (channels 1 to 4 only).
- **DTMF Detection & Transmission** – one transmit and one receive channel per module at a time.
- **Default Routing** – connects each TIM channel to a paired channel in case of a power failure.

The Trunk Interface Module supports one Tone Radio Control (TRC) channel which can be connected the channel 5 or channel 6, or can be left disconnected.

Up to 16 modules can be installed in a PAS rack. The PAS accepts serial commands from redundant host computers to control interconnection of local trunk lines, phones, and public address audio signals.

## ACM-11742 Audio Connection Module



The Audio Connection Module (ACM) is a power, audio bus, and serial communication connection interface for the Programmable Audio Switch rack and components. The ACM has port connections for dual redundant power supplies and dual redundant host computer communication interfaces. The ACM supports full duplex RS-232 (DCE) on each serial communication port. The module can translate between host computer RS-232 and local RS-485 signals for I/O module communication and control.

A front panel connector is used to connect 22 back plane audio channel signals to an optional second PAS rack.

## PWRA-1499 Power Supply



Input power is provided by two redundant, rack mounted, removable power supplies for 5 VDC @ 5A, 12 VDC @ 21A, 48 VDC @ 5.1A.

### Power Supply Input:

85 - 260 VAC, 47 - 63 Hz 700W

### Dimensions and Weight:

**Size:** 483 mm by 89 mm by 356 mm  
(19.0 in by 3.5 in by 14.0 in)

**Weight:** 6.8 kg (15 lb)

## Programmable Audio Switch Rack

### Dimensions and Weight with Slots Filled:

**Size:** 483 mm by 311 mm by 305 mm  
(19.0 in by 12.3 in by 12.0 in)

**Weight:** 22.7 kg (50 lb)

Specifications subject to change.



WILLOWGLEN SYSTEMS INC.

Tel: +1 780-465-1530

Fax: +1 780-465-0130

email: sales@willowglensystems.com

Website: www.willowglensystems.com